International application No.
PCT/AU2004/001054

A	CLASSIFICATION OF SUBJECT MATTER	,						
A 7:								
	H03M 13/47; H04 B 7/14							
According to International Patent Classification (IPC) or to both national classification and IPC								
Minimum docu	mentation searched (classification system followed	by cla	assification symbols)	•				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, USPTO, ESP@CE, INTERNET, Keywords (wireless, data, packet, collision, detection) and similar terms.								
C.	DOCUMENTS CONSIDERED TO BE RELEVAN	NT						
Category*	gory* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.							
P, X	WO 2004/034310 A2 (COLDER PRODUCTS COMPANY) 22 April 2004 See whole document in particular pages 3 - 8							
x	JP 2001-231078 A (NIPPON TELEGRAPH & TELEPHONE CORP.) 24 August 2001 See Whole document (English translation sourced from JP web site: http://www19.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INIT?)							
х	US 5040175 A (TUCH et al.) 13 August 1991 See whole document particularly columns 3 - 7							
,								
F	Further documents are listed in the continu	ation	of Box C X See patent family annual	ex				
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "E" earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "C" document of particular relevance; the claimed invention cannot be considered novel								
	"E" earlier application or patent but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone							
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art								
"O" document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family								
"P" document published prior to the international filing date but later than the priority date claimed								
Date of the actual completion of the international search Date of mailing of the international search report 18 OCT 2000								
12 October			1 8 0 61 2004					
1	ling address of the ISA/AU	Authorized officer						
E-mail address: pet@ipaustralia.gov.au			BEN TUOHY Telephone No: (02) 6283 7918					

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Interna	ational Searching Authority found multiple inventions in this international application, as follows:			
See sur	oplemental sheet for details			
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark o	The additional search fees were accompanied by the applicant's protest.			
	X No protest accompanied the payment of additional search fees.			

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Supp	lem	ental	Box
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are two inventions:

- 1. Claims 1 41, 43 46, 48 50 and 52 60 are directed to a radio communications system including data frames coded so as to be perceived by the device receiving the data frame, as a collision when the device is already receiving data from another source. It is considered that the detection of a collision comprises a first "special technical feature".
- 2. Claims 42, 47 and 51 are directed to a radio communications system including at least two transceivers and a repeater located intermediate the transceivers such that upon receipt of a data transmission from a first transceiver, the repeater re-transmits the data transmission from the first transceiver. It is considered that a repeater located intermediate the transceivers such that upon receipt of a data transmission from a first transceiver, the repeater re-transmits the data transmission from the first transceiver comprises a second "special technical feature".

Since the above mentioned groups of claims do not share either of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
wo	2004034310	US	2004130438				
JР	2001231078						
US	5040175	EP	0452124	л	5316113		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX